**MySQL ASSIGNMENT-9(STORED PROCEDURE):**

**BACKEND CODE:**

DELIMITER //

CREATE PROCEDURE Get\_country\_payments(IN input\_year INT, IN input\_country VARCHAR(50))

BEGIN

SELECT YEAR(p.paymentDate) AS year,

c.country AS country,

CONCAT(ROUND(SUM(p.amount) / 1000, 0), 'K') AS total\_amount

FROM Payments p

JOIN Customers c ON p.customerNumber = c.customerNumber

WHERE YEAR(p.paymentDate) = input\_year AND c.country = input\_country

GROUP BY YEAR(p.paymentDate), c.country;

END

DELIMITER;

To execute the procedure:

CALL Get\_country\_payments(2004, 'USA');

**MySQL ASSIGNMENT-12(ERROR HANDLING IN SQL):**

**BACKEND CODE:**

CREATE TABLE Emp\_EH (

EmpID INT PRIMARY KEY,

EmpName VARCHAR(100),

EmailAddress VARCHAR(255)

);

DELIMITER //

CREATE PROCEDURE Insert\_Emp\_EH(

IN p\_EmpID INT,

IN p\_EmpName VARCHAR(100),

IN p\_EmailAddress VARCHAR(255)

)

BEGIN

DECLARE CONTINUE HANDLER FOR SQLEXCEPTION

BEGIN

-- Error handling block

SELECT 'Error occurred' AS ErrorMessage;

END;

-- Insert statement

INSERT INTO Emp\_EH (EmpID, EmpName, EmailAddress)

VALUES (p\_EmpID, p\_EmpName, p\_EmailAddress);

END

DELIMITER;

**TO EXECUTE:**

CALL Insert\_Emp\_EH(101, 'John Doe', 'john@example.com');

**MySQL ASSIGNMENT-13(TRIGGERS):**

CREATE TABLE Emp\_BIT (

Name VARCHAR(100),

Occupation VARCHAR(100),

Working\_date DATE,

Working\_hours INT

);

INSERT INTO Emp\_BIT VALUES

('Robin', 'Scientist', '2020-10-04', 12),

('Warner', 'Engineer', '2020-10-04', 10),

('Peter', 'Actor', '2020-10-04', 13),

('Marco', 'Doctor', '2020-10-04', 14),

('Brayden', 'Teacher', '2020-10-04', 12),

('Antonio', 'Business', '2020-10-04', 11);

DELIMITER //

CREATE TRIGGER before\_insert\_emp\_bit

BEFORE INSERT ON Emp\_BIT

FOR EACH ROW

BEGIN

IF NEW.Working\_hours < 0 THEN

SET NEW.Working\_hours = ABS(NEW.Working\_hours);

END IF;

END //

DELIMITER ;

TO TEST:

CALL Get\_country\_payments(2004, 'USA');